

Release notes for ENDF/B Development e-044_Ru_000
evaluation

ENDF
B-VII.dev

October 13, 2016

- fudge-4.0 Warnings:

1. Mislabelled emitted particle
Reading ENDF file: ../e-044_Ru_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
2. FIXME: Generic fudge unimplemented message
reaction label 1: e- + Ru + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data
3. FIXME: Generic fudge unimplemented message
reaction label 2: e- + Ru [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree
reaction label 0: e- + Ru [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
2. Calculated and tabulated thresholds don't agree
reaction label 1: e- + Ru + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
3. Calculated and tabulated thresholds don't agree
reaction label 2: e- + Ru [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
4. Calculated and tabulated thresholds don't agree
reaction label 3: e- + e- + Ru1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 22087. eV!
5. Calculated and tabulated thresholds don't agree
reaction label 4: e- + e- + Ru2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3203.9 eV!
6. Calculated and tabulated thresholds don't agree
reaction label 5: e- + e- + Ru2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2971.8 eV!
7. Calculated and tabulated thresholds don't agree
reaction label 6: e- + e- + Ru2p3/2 / Cross section: (Error # 0): Threshold mismatch

- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2838.7 eV!
8. Calculated and tabulated thresholds don't agree
reaction label 7: $e^- + e^- + Ru3s1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 574.03 eV!
9. Calculated and tabulated thresholds don't agree
reaction label 8: $e^- + e^- + Ru3p1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 482.06 eV!
10. Calculated and tabulated thresholds don't agree
reaction label 9: $e^- + e^- + Ru3p3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 459.29 eV!
11. Calculated and tabulated thresholds don't agree
reaction label 10: $e^- + e^- + Ru3d3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 294.53 eV!
12. Calculated and tabulated thresholds don't agree
reaction label 11: $e^- + e^- + Ru3d5/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 290.05 eV!
13. Calculated and tabulated thresholds don't agree
reaction label 12: $e^- + e^- + Ru4s1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 82.14 eV!
14. Calculated and tabulated thresholds don't agree
reaction label 13: $e^- + e^- + Ru4p1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 54.19 eV!
15. Calculated and tabulated thresholds don't agree
reaction label 14: $e^- + e^- + Ru4p3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50.66 eV!
16. Calculated and tabulated thresholds don't agree
reaction label 15: $e^- + e^- + Ru4d3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.15 eV!
17. Calculated and tabulated thresholds don't agree
reaction label 16: $e^- + e^- + Ru4d5/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.789999999999999 eV!
18. Calculated and tabulated thresholds don't agree
reaction label 17: $e^- + e^- + Ru5s1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.38 eV!

- `xsectplotter` Warnings:

1. Mislabeled emitted particle
Error: ZAP messed up

```
stderr while processing crossSection
```

```
WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0  
... [2 more lines]
```